

Amendment Under 37 C.F.R. § 1.111
Serial No. 10/052,397
Sughrue Ref: Q68214

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended). A method of attaching a board connector, comprising the steps of:

positioning the board connector relatively with respect to ~~the~~a circuit board by inserting a tip end portion of a positioning projection integrally formed with an attachment surface of the board connector opposing to ~~at~~the circuit board so as to protrude in an attachment direction from the attachment surface into a corresponding positioning hole provided at the circuit board, wherein a projecting length of said positioning projection is greater than projection lengths of said terminals from the attachment surface;

inserting tip end portions of terminals protruding in the attachment direction from the attachment surface into through holes of the circuit board; and

fixing the board connector to the circuit board by engaging an attachment arm, independent of said positioning projection provided at a side surface, which is not the attachment surface, of the board connector and extending in the attachment direction with an attachment portion provided at the circuit board, said positioning, inserting and fixing steps occurring in the stated order.

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Claim 2 (currently amended). An attachment structure of a board connector, the board connector including terminals protruding in an attachment direction from an attachment surface thereof opposing to a circuit board, said attachment structure comprising:

a positioning projection integrally formed with the attachment surface of the board connector opposing to ~~a~~the circuit board so as to protrude in an attachment direction from the attachment surface, said positioning projection having a projecting length greater than projection lengths of said terminals from the attachment surface, said positioning projection being inserted into a positioning hole provided at the circuit board prior to insertion of the terminals into through holes; and

an attachment arm, independent of said positioning projection, provided at a side surface, which is not the attachment surface, of the board connector and protruding in the attachment direction, said attachment arm being engaged with an attachment portion provided at the circuit board, whereby the board connector is fixed to the circuit board.

Claim 3 (currently amended). An attachment structure of the board connector according to claim 2, wherein a groove is formed at a tip end portion of said positioning projection, ~~and said groove is split,~~ wherein the groove splits said positioning projection into at least two pieces in a longitudinal direction of said positioning projection, and

said tip end of said positioning projection is elastically deformed in a radial direction of the positioning hole when said positioning projection is inserted into the positioning hole.

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Claim 4 (previously presented). An attachment structure of the board connector according to claim 2, wherein the projecting length of said positioning projection from the attachment surface is greater than a projection length of said attachment arm from the attachment surface.

Claim 5 (previously presented). A board connector comprising:
terminals protruding in an attachment direction from an attachment surface;
a positioning projection protruding in the attachment direction from the attachment surface; and
an attachment arm, independent of said positioning projection, provided at a side surface of the board connector and extending in the attachment direction, said attachment arm being substantially L-shaped, provided on a surface which is not the attachment surface, and having an engagement projection at a tip end thereof;
wherein a projecting length of said positioning projection from the attachment surface is greater than projection lengths of said terminals from the attachment surface.

Claim 6 (currently amended). A board connector according to claim 5, wherein a groove is formed at a tip end portion of said positioning projection, wherein the groove splits said positioning projection, and said groove is split into at least two pieces in a longitudinal direction of said positioning projection so as to be elastically deformed in a direction perpendicular to the attachment direction.

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Claim 7 (previously presented). A board connector according to claim 5, wherein the projecting length of said positioning projection from the attachment surface is greater than a projection length of said attachment arm from the attachment surface.

Claim 8 (previously presented). The method according to claim 1, wherein the positioning projection protrudes further from the attachment surface than the attachment arm.

Claim 9 (previously presented). An attachment structure of the board connector according to claim 2, wherein the positioning projection protrudes further from the attachment surface than the attachment arm.

Claim 10 (previously presented). The board connector according to claim 5, wherein said attachment arm does not serve as terminal for electrical connection.